

ABSTRACT OF THE DISCLOSURE

A data allocator allocates $(N \times k_V \times k_H)$ -byte source data distributively in N (k_V bytes \times k_H bytes) two-dimensional arrays and sends the data to a V coder and an H coder. The V coder codes each column of the two-dimensional arrays according to an (n_V, k_V) code V , and the H coder codes each row of the two-dimensional arrays according to an (n_H, k_H) code H . The V and H coders send redundant data to a data allocator. The data allocator allocates the redundant data in a memory to obtain N (n_V bytes \times n_H bytes) product-code codewords and outputs each row of the product-code codewords in an alternating manner for the N product-code codewords.

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